



Search Results Attached

Serial Number 10/625, 156

Date 03/19/2007

Total Pages of Results 16

WPF
03/19/2007

Search only in: Chemistry and Materials Science
 Medicine, Pharmacology, and Veterinary Science
 Search in all subject areas.

The "AND" operator is unnecessary -- we include all search terms by default. [\[details\]](#)

Scholar All articles [Recent articles](#) Results 1 - 100 of about 163 for **barrier and syringe and hydrogel and (swell OR swells OR swelling OR sw**

[All Results](#)

Blood gas syringe having improved blood barrier - group of 3 »

RR Cohen, P Keusch - US Patent 6,648,836, 2003 - Google Patents

... view of the porous plug of the BLOOD BARRIER invention; and ... Advantageously, the hydrogel in this state ... drawn into a fl ili /i -i prototype syringe through the ...

[Web Search](#)

[R Bawa](#)

[N Peppas](#)

[D Moro](#)

[P Kuzma](#)

[H Quandt](#)

Rehydratable product and method of preparation thereof - group of 4 »

LB Llyod, JE Beck, TJ Petelenz - US Patent 5,328,455, 1994 - Google Patents

... However, such **barriers** or membranes also inhibit wetting of the ... a hypodermic needle or **syringe** tube may ... HCDH" for highly crosslinked dry **hydrogel** swells to a ...

[Cited by 13 - Related Articles](#) - [Web Search](#)

Microfluidic tectonics: A comprehensive construction platform for microfluidic systems - group of 9 »

DJ Beebe, JS Moore, Q Yu, RH Liu, ML Kraft, BH Jo, ... - Proceedings of the National Academy of Sciences, 2000 - National Acad Sciences

... steady laminar flows are established by using **syringe** pumps, the ... the **hydrogel** to **swell** and the **hydrogel** diameter is ... of the fatty acid layer as an ion **barrier**. ...

[Cited by 65 - Related Articles](#) - [Web Search](#) - [BL Direct](#)

Electrokinetic concentration enrichment within a microfluidic device using a hydrogel microplug - group of 2 »

R Dhopeshwarkar, L Sun, RM Crooks - Lab Chip, 2005 - rsc.org

... The **syringe** pump was disconnected after ensuring that ... anionic **hydrogel** imposes two additional **barriers** to penetration ... are undetectable in the **hydrogel** interior ...

[Cited by 2 - Related Articles](#) - [Web Search](#) - [BL Direct](#)

Wound dressing with sustained anti-microbial capability - group of 3 »

WK Loke, SK Lau, LL Yong, E Khor, CK Sum - Journal of Biomedical Materials Research, 2000 - doi.wiley.com

... was obtained via a heparinized **syringe** from an ... as serving as a mechanical and microbial

barrier. ... Chitin Films Sample Chitin Film Carboxymethyl-Chitin **Hydrogel** ...

[Cited by 35 - Related Articles](#) - [Web Search](#) - [BL Direct](#)

Biodegradable hydrogel matrices for the controlled release of pharmacologically active agents - group of 4 »

J Feijen - US Patent 4,925,677, 1990 - Google Patents

... surface will form an extra "barrier" for positively ... EXAMPLE 2 10 occurs until the **hydrogel** is mechanically ... dropwise with a **syringe**, and the mixture was stirred ...

[Cited by 20 - Related Articles](#) - [Web Search](#)

Manufacture of water-swellable hydrophilic articles and drug delivery devices - group of 2 »

DG Moro, P Kuzma, H Quandt - US Patent 5,292,515, 1994 - Google Patents

... Sterilized kits containing a disposable needle/**syringe** or trocar ... been used as rate-limiting **barriers** for such de- ... articles, formed of xerogel or **hydrogel**, of 60 ...

[Cited by 19 - Related Articles](#) - [Web Search](#)

Microgel, nanogel and hydrogel-hydrogel semi-IPN composites for biomedical applications: synthesis ... - group of 2 »

N Sahiner, WT Godbey, GL McPherson, VT John - Colloid & Polymer Science, 2006 - Springer

... the sample with 0.2- μ m **syringe** filter ... the crossing of the blood brain **barrier** (BBB) of ... These materials, including semi-IPN **hydrogel-hydrogel** composites, have ...

[Related Articles](#) - [Web Search](#)

Fabrication of Hyaluronic Acid Hydrogel Beads for Cell Encapsulation - group of 7 »

KH Bae, JJ Yoon, TG Park - tissue engineering - bama.kaist.ac.kr

... containing calcium ions through a **syringe** needle. ... of the HA/PLL complex **barrier** structure in ... HA **hydrogel** beads prepared from different formulation conditions ...

[Cited by 2 - Related Articles](#) - [View as HTML](#) - [Web Search](#)

PROTRACTED ACTIVITY ORAL HYDROGEL BEAD BEST AVAILABLE COPY

K Kliment - US Patent 3,689,634 - Google Patents

... teristic, forms a **barrier** through which the biologically ... This allows the **hydrogel** to be refilled, or ... implanted and refilled, by hypodermic **syringe** *in situ* ...

Cited by 8 - Related Articles - Web Search

Fragmented polymeric compositions and methods for their use - group of 6 »

DG Wallace, CJ Reich, NS Shargill, F Vega, AE ... - US Patent 6,066,325, 2000 - Google Patents

... be protected from cellular or enzyme degradation by a protective **barrier** or cover. ...

syringe or other applicator prior to mechanical disruption. **hydrogel** ...

Cited by 9 - Related Articles - Web Search

Photopolymerization of bovine hemoglobin entrapped nanoscale hydrogel particles within liposomal ... - group of 5 »

JN Patton, AF Palmer - Biomacromolecules, 2005 - pubs.acs.org

... and since there is no distinct cellular **barrier** around NHPs ... using the optimal composition of **hydrogel** forming species ... A 1 mL gastight **syringe** was placed in one ...

Cited by 6 - Related Articles - Web Search

Preparation of homogeneous hydrogel copolymers - group of 2 »

P Kuzma, DG Moro, H Quandt - US Patent 5,266,325, 1993 - Google Patents

... a trocar or hypodermic needle/**syringe** and the ... have been used as rate-limiting **barriers** for such de ... of crosslinking agent would render the **hydrogel** somewhat more ...

Cited by 11 - Related Articles - Web Search

NON-HORMONAL VAGINAL CONTRACEPTIVE

S LERNER, BB SAXENA, M SINGH - EP Patent 1,313,422, 2003 - freepatentsonline.com

... structure to form an impenetrable **barrier** for sperm. ... is preserved in the original tuberculin **syringe** and covered ... onset of swelling of the **hydrogel** core during ...

Cached - Web Search

TREATMENT FOR HIGH PRESSURE BLEEDING

G WNEK, ME CARR JR, IK COHEN, G BOWLIN, KR WARD, W ... - EP Patent 1,318,778, 2003 - freepatentsonline.com

... or electrospinning system comprises a **syringe** pump 100 ... elastic, provides stiffness as the **hydrogel** inside **swells** ... and respectively act as a **barrier** to leaking ...

Cached - Web Search

Methods of using in situ hydration of hydrogel articles for sealing or augmentation of tissue or ... - group of 4 »

AS Sawhney - US Patent 6,605,294, 2003 - Google Patents

... eg, the other component in the **syringe** may comprise ... et al., "Bioabsorb- able Hydrogel Tissue Barrier: In Situ ... Upon completion of a biopsy, the **hydrogel** plug is ...

Cited by 3 - Related Articles - Web Search

Oral insulin delivery using P (MAA-g-EG) hydrogels: effects of network morphology on insulin ... - group of 5 »

K Nakamura, RJ Murray, JI Joseph, NA Peppas, M ... - J. Control. Release, 2004 - che.utexas.edu

... that all of the ILP was delivered, the **syringe** was twice ... 3. **Hydrogel** mesh size as a function of pH at 37 °C ... in the stomach is one of the main **barriers** for the ...

Cited by 11 - Related Articles - View as HTML - Web Search

Perspectives on: Chitosan Drug Delivery Systems Based on their Geometries - group of 3 »

EB Denkbas, RM Ottenbrite - Journal of Bioactive and Compatible Polymers, 2006 - jbc.sagepub.com

... sponge, rod, drug delivery, drug carrier, chitosan **hydrogel**. ... of small droplets via a **syringe** into an ... with the underlying mucosal epithelial **barrier** (to enhance ...

Cited by 2 - Related Articles - Web Search

Method of forming a membrane especially a latex or polymer membrane including multiple discrete ... - group of 4 »

RRT Shlenker, DJ Lester, CC Solomons, SS ... - US Patent 5,965,276, 1999 - Google Patents

... S. Plamthottam, Upland, Calif. [73] Assignee: BIO Barrier, Inc., Los Angeles, Calif. [21] F771 [63] [51] [52] Notice: This patent ...

Cited by 17 - Related Articles - Web Search

Composite Hydrogels for Sustained Release of Therapeutic Agents

X Liu, K Nakamura, AM Lowman - Soft Materials, 2003 - Taylor & Francis

... press-coated hydrophilic and/or hydro- phobic barrier layers, and ... by using a **syringe** adapted with **syringe** filter with ... Chemical Analysis of **Hydrogel** Composite ...

Cited by 1 - Related Articles - Web Search - BL Direct

Hydrogel-forming, self-solvating absorbable polyester copolymers, and methods for use thereof - group of 5 »

SW Shalaby - US Patent 6,413,539, 2002 - Google Patents

... water), undergo rapid swelling without discernible ... The dissipation of solvent creates pores within the ... of Component A; (c) providing a hydrogel barrier with or ...

[Cited by 20 - Related Articles](#) [Web Search](#)

Porous hydrophilic materials, chambers therefrom, and devices comprising such chambers and ... - group of 2 »

SH Ronel, MJ D'Andrea, WH Dobelle, GF Klomp, H ... - US Patent 4,298,002, 1981 - Google Patents

... SYRINGE NEEDLE ... Permeation Through Polymer Membranes II: Diffusion Studies On Hydrogel Membranes. ... In these devices the mem- brane thickness (barrier) is governed ...

[Cited by 48 - Related Articles](#) [Web Search](#)

Azlactone-functional hydrophilic coatings and hydrogels - group of 3 »

LC Haddad, JI Hembre, JK Rasmussen, D Sarpong - US Patent 6,794,458, 2004 - Google Patents

... alkyl substituent provides a greater barrier to reaction ... TABLE 1 Hydrogel Formation

Diluent ED Gel Time ... crosslinker), and were applied by syringe into channels ...

[Cited by 1 - Related Articles](#) [Web Search](#)

Compositions and devices for controlled release of active ingredients - group of 5 »

CD Batich, MS Cohen, K Foster, W Toreki III - US Patent 6,306,422, 2001 - Google Patents

... polymers which absorb water and swell in aqueous ... from dissolving, and the polymer swells (Tarcha, 1991 ... al., 1986) Upon swelling, the hydrogel's coefficient of ...

[Cited by 3 - Related Articles](#) [Web Search](#)

Hydrogel-Based Colloidal Polymeric System for Protein and Drug Delivery: Physical and Chemical ... - group of 2 »

A Prokop, E Kozlov, G Carlesso, JM Davidson - *Adv. Polymer Sci.*, 2001 - Springer

... Release from Hydrogels Possessing Ionizable and Pendant Groups – Swelling

Hydrogel-Based Colloidal Polymeric System for Protein and Drug ... 5 ml syringe ...

[Cited by 6 - Related Articles](#) [Web Search](#) [BL Direct](#)

METHOD OF FORMING A MEMBRANE, ESPECIALLY A LATEX OR POLYMER MEMBRANE, INCLUDING MULTIPLE DISCRETE ...

RRT BECK, DJ LESTER, CC SOLOMONS, SS PLAMTHOTTAM - EP Patent 1,235,673, 2002 - [freepatentsonline.com](#)

... Assignee: BIO BARRIER INC (US). ... allows penetration by the needle or syringe upon entering and ... zinc stearates and other stearates, hydrogel compositions, powders ...

[Cached](#) [Web Search](#)

HYDROGEL FILMS AND METHODS OF MAKING AND USING THEREFOR

YI LUO, GD PRESTWICH, KR KIRKER - EP Patent 1,305,355, 2003 - [freepatentsonline.com](#)

... hydrogel film can also function as a barrier system for ... can also be via a cannula, catheter, syringe with or ... The hydrogel film may be applied onto a tissue in ...

[Cached](#) [Web Search](#)

Bioresorbable sealants for porous vascular grafts - group of 2 »

DJ Lenz, GL Loomis, A Moroni, J DePreker... - US Patent 5,851,229, 1998 - Google Patents

... and imparts a substantially liquid-tight barrier between the ... of this invention,

"hydrogel" and "hydrogel matrix" both ... to a polymeric material that swells in 20 ...

[Cited by 9 - Related Articles](#) [Web Search](#)

[CITATION] Method of forming a membrane, especially a latex or polymer membrane

SS Plamthottam, CC Solomons, DJ Lester, RRT ... - US Patent 5,679,399, 1997

[Related Articles](#) [Web Search](#)

Film barrier dressing for intravascular tissue monitoring system - group of 2 »

K Jersey-Willuhn, M Soleimani - US Patent 6,980,852, 2005 - Google Patents

... FILM BARRIER DRESSING FOR INTRAVASCULAR TISSUE MONITORING SYSTEM ... a patient in intravenous therapy include venous inflammation and phlebitis, swelling at the ...

[Related Articles](#) [Web Search](#)

Strategy for Cell Therapy: Polymers for Live Cell Encapsulation and Delivery - group of 2 »

S Prakash, H Soe-Lin - *Trends Biomater. Artif. Organs.*, 2004 - [medind.nic.in](#)

... into hollow fibres via a syringe (24), were ... the mechanical stability of a hydrogel already established ... of CS provides a mechanically stable barrier while the ...

[Cited by 3 - Related Articles](#) [View as HTML](#) [Web Search](#)

Molecular design and in vitro studies of novel pH-sensitive hydrogels for the oral delivery of ... - group of 7 »

M Torres-Lugo, NA Peppas - *Macromolecules*, 1999 - [che.utexas.edu](#)

... was withdrawn from the beaker using a syringe and the ... of solute on the surface of the hydrogel. ... The tethered PEG chains present additional barriers for this ...

[Cited by 57 - Related Articles](#) [View as HTML](#) [Web Search](#) [BL Direct](#)

[Polyalkylene glycol viscosity-enhancing polymeric formulations - group of 4 »](#)
LZ Avila, PK Jarrett, HM Kramer, CM Philbrook - US Patent 7,074,424, 2006 - Google Patents
... topolymerization) orheat, can be used to form the **hydrogel**. ... lower macromer concentration,
the resulting gels swell less. ... which acts as a local **barrier** or drug ...
[Related Articles](#) - [Web Search](#)

[Drug delivery systems: 3B. Role of polymers in drug delivery - group of 6 »](#)
VV Ranade - The Journal of Clinical Pharmacology, 1990 - [jcp.sagepub.com](#)
Page 1. DRUG DELIVERY SYSTEMS J COn Pharmacol 1990;30:107-120 107 Drug Delivery
Systems: 3B. Role of Polymers in Drug Delivery Vasant V. Ranade, PhD ...
[Cited by 14](#) - [Related Articles](#) - [Web Search](#)

[Intravenous delivery system](#)
T MINER, P HARTL, A CHRISTOPH - EP Patent 1,559,442, 2005 - [freepatentsonline.com](#)
... end vent plug 74 forms a **barrier** to prevent ... Once the granular **hydrogel** fully expands,
it seals off the ... material outer layer will expand or **swell** to create a ...
[Cached](#) - [Web Search](#)

[Use of skin penetration enhancers and barrier disruption agents to enhance transcutaneous immune ... - group of 2 »](#)
GM GLENN, CB ALVING - EP Patent 1,356,821, 2003 - [freepatentsonline.com](#)
... dressing, a nonocclusive dressing, a **hydrogel** dressing and ... of a plastic container
having a **syringe** plunger at ... similar drugs interfere with **barrier** function and ...
[Cached](#) - [Web Search](#)

[Immunoisolation techniques for islet cell transplantation - group of 5 »](#)
EC Opara, WF Kendall Jr - Expert Opin. Biol. Ther, 2002 - [ingentaconnect.com](#)
... engineered chondrocytes, polyacrylates and AN69 **hydrogel** [26-30 ... especially when the
air-jet **syringe** pump droplet ... capsule with an immune **barrier** (semi-permeable ...
[Cited by 9](#) - [Related Articles](#) - [Web Search](#)

[Osmotic devices having vapor-permeable coatings - group of 2 »](#)
EL Cussler, SM Herbig, KL Smith, P van Eikeren - US Patent 5,827,538, 1998 - Google Patents
... are used in gas-transport/liquid-**barrier** applica- tions ... large capacity to absorb
water and **swell**, its availability ... The **hydrogel** employed can be a blend of, for ...
[Cited by 3](#) - [Related Articles](#) - [Web Search](#)

[Evaluation of Alginate Microcapsules for Use in Transplantation Of Islets of Langerhans - group of 3 »](#)
A KING - Transplantation - [diva-portal.org](#)
... One such **hydrogel** is agarose, but there is little information about the physical
properties of ... Formation of immunoprotective **barrier** Poly-L-Lysine ... **Syringe** pump ...
[Cited by 1](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#)

[Chitin hydrogels, methods of their production and use - group of 3 »](#)
WN Drohan, MJ MacPhee, SI Miekka, MS Singh, C ... - US Patent 6,124,273, 2000 - Google Patents
... Further provided are biomaterials comprising same. The particular supplement delivered
by the chitin **hydrogel** is selected as a function of its intended use. ...
[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

[Responsive Biomaterial Surfaces](#)
X Wang - [lib.ncsu.edu](#)
... of the **pores** and the transport of insulin ... membrane; (2) membrane pore; (3) surface
free radical; (4 ... the pH of the medium, leading to increased **hydrogel** swelling ...
[Cited by 1](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Controlling resorption of bioresorbable medical implant material - group of 3 »](#)
J Li, S Baldwin, T Harrah - US Patent 6,913,765, 2005 - Google Patents
... Therefore, by embed- ding resorbable particles that **swell** or move ... Adevice may be
in its **hydrogel** form or in a ... may be used as anti-adhesion **barrier** to isolate ...
[Related Articles](#) - [Web Search](#)

[Mucosal insulin delivery systems based on complexation polymer hydrogels: effect of particle size on ... - group of 5 »](#)
M Morishita, T Goto, NA Peppas, JI Joseph, MC ... - J. Control. Release, 2004 - [pages.drexel.edu](#)
... of polymers have promising properties to overcome absorption **barriers** of peptide ...
Hydrogel synthesis ... fashion consisting of coating of the **syringe** wall through ...
[Cited by 10](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[New technologies in diabetes care](#)
P Releases, CME Calendar, RY Practice, P ... - [mediwire.sma.org](#)

President's Welcome. Mission/Vision. Leadership. Special Service Awards. Press Releases.

FAQ. Southern Medical Journal. CME Calendar. CME Online Library. ...

[Related Articles](#) - [Cached](#) - [Web Search](#)

Biocompatible devices with foam scaffolds - group of 5 »

R Li, TF Hazlett... - US Patent 6,054,142, 2000 - Google Patents

... copolymer, or a hydrophilic matrix such as a **hydrogel**. ... immunoisolatory device provides a protective barrier between these ... The pore size, pore density and void ...

[Cited by 7](#) - [Related Articles](#) - [Web Search](#)

Stable small particle liposome preparations, their production and use in topical cosmetic, and ... - group of 2 »

M Edgar, C Michel, T Purmann - US Patent 5,498,420, 1996 - Google Patents

... An increase in vesicle size always implies an increase of the number of membrane-forming molecules per vesicle (because a liposome cannot swell). ...

[Cited by 11](#) - [Related Articles](#) - [Web Search](#)

Implantable tissue repair device

BAO QI-BIN, AY HANSEN - EP Patent 1,462,128, 2004 - [freepatentsonline.com](#)

... 5,047,055, which teaches a **swellable hydrogel** prosthetic nucleus. ... forming an even wider wall or **barrier** which affords ... be in the form of a **syringe-like** structure ...

[Cached](#) - [Web Search](#)

BIOCOMPATIBLE FLEECE FOR HEMOSTASIS AND TISSUE ENGINEERING

HM KRAMER, LA AVILA, CM PHILBROOK, MJ BASSETT, E ... - EP Patent 1,361,906, 2003 - [freepatentsonline.com](#)

... components resulting in degradation of the **hydrogel** *in vivo* ... in the Examples.) **ADHESIVE AND BARRIER**: Because it ... prepared by utilizing a dual **syringe** system (1.0 ...

[Cached](#) - [Web Search](#)

Restorative surgery of the central nervous system by means of tissue engineering using NeuroGel ... - group of 4 »

S Woerly - Neurosurgical Review, 2000 - Springer

... we developed Neuro- Gel, a biocompatible **hydrogel** of poly[N ... 1). The swelling behaviour of this polymer when in ... The pore architecture forms a tortuous network of ...

[Cited by 25](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Chitosan/polyethylene glycol-alginate microcapsules for oral delivery of hirudin - group of 2 »

T Chandy, DL Mooradian, GHR Rao - Journal of Applied Polymer Science, 1998 - [doi.wiley.com](#)

... on the modulation of the physiological **barriers** and subsequently ... 0.15-mm diameter), from a plastic **syringe** in a ... Chitosan, a **hydrogel** based on a natural poly ...

[Cited by 27](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Hydrophilic absorbents - group of 4 »

DD Levy, SH Ronel - US Patent 4,081,402, 1978 - Google Patents

... antigen sepa -ration and analysis by: Providing a **barrier** to prevent ... thereby reaching its final dimensions, (iv) water **swell-** 15 ... throughout the **hydrogel** matrix ...

[Cited by 14](#) - [Related Articles](#) - [Web Search](#)

Immobilized buffered gels and membranes of hydroxy groups containing polymers - group of 10 »

C Linder, M Nemas, M Perry, R Ketraro - US Patent 5,430,099, 1995 - Google Patents

... Pore-foraging agents (eg leachable polymers, cosolvents)may be used ... may also be used with **hydrogel** mono -mers ... toget her can form water-insoluble, but **swelling**, ...

[Related Articles](#) - [Web Search](#)

Reduction in the Initial-Burst Release by Surface Crosslinking of PLGA Microparticles Containing ... - group of 4 »

AJ Thote, JT Chappell, R Kumar, RB Gupta - Drug Development and Industrial Pharmacy, 2005 - Taylor & Francis

... **hydrogel**, which acts as a diffusional **barrier** for the ... create noncovalent interactions between the **hydrogel** and the ... taken in a **syringe** pump and pressurized to ...

[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

Nano and microparticles as controlled drug delivery devices - group of 7 »

M Kumar - J. Pharm. Sci, 2000 - [collection.ncbi.nlm.nih.gov](#)

... 7.4) from a 20 ml plastipack **syringe** through a ... and the residence time of the **hydrogel**, therefore, sets ... layers on the microspheres were effective **barriers** to 5 ...

[Cited by 62](#) - [Related Articles](#) - [Cached](#) - [Web Search](#)

Histologic evaluation of the inflammatory response around implanted hollow fiber membranes - group of 4 »

H Clark, TA Barbari, K Stump, G Rao - Journal of Biomedical Materials Research, 2000 - [doi.wiley.com](#)

... mem- branes have been used as **barrier** materials for ... 175–200 g rats by **syringe** injection, using ... Owing to **swelling** of the regenerated cellulose membrane *in vivo* ...

[Cited by 7 - Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Ultraviolet light-induced modification of crosslinked hyaluronan gels - group of 3](#) »

A Ramamurthi, I Vesely - Mater Res, 2003 - doi.wiley.com

... and more highly crosslinked varieties are used as **barriers** to reduce ... **Hydrogel** preparation ... The HA solution was immediately trans- fered using a **syringe** to 100 ...

[Cited by 7 - Related Articles](#) - [Web Search](#) - [BL Direct](#)

[FILTER FOR REMOVING WATER AND/OR SURFACTANTS FROM A LIPOPHILIC FLUID](#)

DE BURTON, AV RADOMYSELSKI, PARG FRANCE - EP Patent 1,425,093, 2004 - freepatentsonline.com

... HP 7673 Autosampler, 10 ul **syringe**, lul injection ... with the osmotic absorbent (eg , **hydrogel**- forming absorbent ... de-watering media 40 forms a barrier between the ...

[Cached](#) - [Web Search](#)

[Hydrogels based on poly \(vinyl alcohol-co-acrylic acid\) as an innovative system for controlled drug](#) ...

N Barbani, F Tricoli, C Cristallini, F Bertoni, F ... - Journal of Applied Biomaterials & Biomechanics, 2004 - jabb.biz ... and Wd is the weight of the dried **hydrogel** ... Figure 1 - Temporal dependence of hydrogels swelling at different pH ... inert at- mosphere and with **barrier** packaging (2 ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Controlled release by extrusion of solid amorphous dispersions of drugs - group of 2](#) »

LE Appel, WJ Curatolo, SM Herbig, JAS Nightingale, ... - US Patent 6,706,283, 2004 - Google Patents

... a passageway in the semipermeable wall by swell -ing of ... ofdrug in a **swellable** polyoxamer **hydrogel** that releases ... that either passes a 0.45 /an **syringe** filter or ...

[Related Articles](#) - [Web Search](#)

[Evaluation of Novel Cross-linking Agents for Gelatin/Collagen Matrices](#)

BJ Schuler - 2004 - kitkat.wvu.edu

... The main limitations of gelatin are its extensive **swelling**, rapid dissolution and drug release. ... TABLE 2. C OMPARISON OF THE VARIABILITY OF **SWELLING** PROFILES ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Device comprising means for protecting and dispensing fluid sensitive medicament](#)

US Patent 4,855,141, 1989 - freepatentsonline.com

... driving member made of a **hydrogel**, and which **hydrogel** can continuously ... means 19, which is a **fluid barrier**, can be ... Then a 10 cc glass **syringe** is filled with the ...

[Cited by 27 - Related Articles](#) - [Cached](#) - [Web Search](#)

[Application of Micro-and Nano-Electromechanical Devices to Drug Delivery - group of 6](#) »

M Staples, K Daniel, MJ Cima, R Langer - Pharmaceutical Research, 2006 - Springer

... system consisting of a glass **syringe** barrel and a ... through a conducting polymer that contacts a **swellable hydrogel**. ... delivery if the reservoir **barrier** includes a ...

[Related Articles](#) - [Web Search](#) - [BL Direct](#)

[In vitro release behavior and stability of insulin in complexation hydrogels as oral drug delivery](#) ... - [group of 6](#) »

B Kim, NA Peppas - Int J Pharm, 2003 - che.utexas.edu

... from the solution with a **syringe** (Morishita et al ... PEG-containing **hydrogel** microparticles for oral protein ... Penetration and enzymatic **barriers** to peptide and ...

[Cited by 7 - Related Articles](#) - [View as HTML](#) - [Web Search](#)

[The Relationship between Contact Lens Oxygen Permeability and Binding of Pseudomonas aeruginosa](#) ... - [group of 4](#) »

DH Ren, WM Petroll, JV Jester, J Ho-Fan, HD ... - the CLAO journal, 1999 - bausch.com.br

... Allergan, Inc.) is formu- lated for **hydrogel** lenses ... After removal from the **syringe** holder, the membrane was ... 490 nm excitation filter, 520 nm **barrier** filter) was ...

[Cited by 79 - Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

[NITRIC OXIDE-PRODUCING HYDROGEL MATERIALS](#)

JL HILL-WEST, KS MASTERS - EP Patent 1,315,476, 2003 - freepatentsonline.com

... in situ to serve as biodegradable **barriers**, as carriers ... filtered through 0.2pm **syringe** filters (Gelman ... All three **hydrogel** NO donors significantly inhibited SMC ...

[Cached](#) - [Web Search](#)

[DEVICE FOR REGENERATION OF ARTICULAR CARTILAGE AND OTHER TISSUE](#)

JH BREKKE, G BRADICA, SM GOLDMAN - EP Patent 1,416,977, 2004 - freepatentsonline.com

... carbonate copolymers (PGA/TMC) **Hydrogel** Lactide/tetramethylglycolide ... However, the **hydrophobic barrier** as may be ... out by a microliter **syringe** which generally ...

[Cached](#) - [Web Search](#)

Capillary mechanisms in membrane emulsification: oil-in-water emulsions stabilized by Tween 20 and ... - group of 4 »

NC Christov, DN Ganchev, ND Vassileva, ND Denkov, ... - Colloids Surf. A, 2002 - Icpe.uni-sofia.bg

... Milk proteins; Kinetic barrier to adsorption ... monodisperse colloidal particles:

silica-hydrogel and polymer ... cyclic dimpling [53] and osmotic swelling [54], have ...

Cited by 16 - Related Articles - View as HTML - Web Search

Delivery of LMW Heparin via Surface Coated Chitosan/peg-Alginate Microspheres Prevents Thrombosis - group of 3 »

T Chandy - Drug Delivery, 2002 - Taylor & Francis

... on the modulation of the physiological barriers and subsequently ... 10 ml/h, from a plastic syringe in a ... Chitosan, a hydrogel based on a natural polysaccharide ...

Cited by 5 - Related Articles - Web Search - BL Direct

Device comprising liner for protecting fluid sensitive medicament - group of 2 »

JB Eckenhoff, JA Magruder, R Cortese, JR Peery, JC ... - US Patent 4,996,060, 1991 - Google Patents

... and an expandable driving member made of a hydrogel, 40 and which hydrogel can continuously ... The film is used as a barrier between a fluid source and a container ...

Cited by 5 - Related Articles - Web Search

[CITATION] Method and apparatus for sealing implantable membrane encapsulation devices

US Patent 5,653,688, 1997

Web Search

Nitric oxide-producing hydrogel materials - group of 2 »

JL West, KS Masters - US Patent 7,052,711, 2006 - Google Patents

Page 1. United States Patent West et al. (54) NITRIC OXIDE-PRODUCING HYDROGEL MATERIALS ...

The hydrogel can be formed by ionic and/or covalent crosslinking. ...

Web Search

Oral Bioadhesive Drug Delivery Systems - group of 4 »

ML Bruschi, O de Freitas - Drug Development and Industrial Pharmacy, 2005 - Taylor & Francis

... membrane acts as the major transport barrier for hydrophilic ... be able to meet these requirements and swell to a ... system, an ideal oral film can present swelling. ...

Related Articles - Web Search

Photocurable surgical tissue adhesive glues composed of photoreactive gelatin and poly (ethylene ... - group of 3 »

Y Nakayama, T Matsuda - Journal of Biomedical Materials Research, 1999 - doi.wiley.com

... 250 g) under pneumoperitoneum using a syringe pump ... exhibited a relatively low degree of swelling when compared ... gelatin and PEGDA produced less swellable gels at ...

Cited by 33 - Related Articles - Web Search - BL Direct

A composite poly-hydroxybutyrate-glial growth factor conduit for long nerve gap repairs - group of 6 »

PN Mohanna, RC Young, M Wiberg, G Terenghi - Journal of Anatomy, 2003 - Blackwell Synergy

... A Hamilton syringe was used to fill the conduits with ... grow along the outer surface of the hydrogel and do ... that the alginate behaves as a barrier and prevents ...

Cited by 10 - Related Articles - Web Search - BL Direct

Synthetic Dressings - group of 3 »

J Auböck - Curr Probl Dermatol, 1999 - content.karger.com

... of moist environment and autolytic debridement Barrier function (eg ... In dry wounds, hydrogel dressings can be used to ... even be aspirated with a syringe using an ...

Cited by 1 - Related Articles - Web Search - BL Direct

Cross-linked collagenic peptide for preventing post-surgical adhesions - group of 2 »

A Constancis, R Meyrueix - US Patent 6,790,438, 2004 - Google Patents

... such that the means conserves its barrier effect function ... to modulate the properties of swelling, of mechanical ... using a tool, preferably a syringe or a spray. ...

Related Articles - Web Search

Lateral Diffusion in Substrate-Supported Lipid Monolayers as a Function of Ambient Relative Humidity - group of 4 »

T Baumgart, A Offenhauser - Biophysical Journal, 2002 - Biophysical Soc

... The solutions were filtered through syringe filters (Millex, Millipore ... 470-490, Olympus) and a barrier filter (BA ... the gas phase above a hydrogel-supported lipid ...

Related Articles - Web Search - BL Direct

Modified Electrodes for Amperometric Determination of Glucose and Glutamate Using Mediated Electron ...

METHOD FOR PROCESSING A LIPOPHILIC FLUID

AV RADOMYSELSKI, PARG FRANCE, DE BURTON, MJ ULLOM, ... - EP Patent 1,425,078, 2004 - [freepatentsonline.com](#)

... HP 7673 Autosampler, 10 **ul syringe**, 1ul injection ... with the osmotic absorbent (eg , hydrogel- forming absorbent ... even after the absorbent material **swells** and/or ...

[Cached](#) - [Web Search](#)

Polymeric monolithic stationary phases for capillary electrochromatography - group of 3 »

JMJ Fréchet - Electrophoresis, 2002 - [doi.wiley.com](#)

... were observed using these "fritless" **hydrogel** columns leading ... detailed characterization of the **pore** structures was ... the monolith using a **syringe** pump or ...

[Cited by 30](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Photopolymerizable biodegradable hydrogels as tissue contacting materials and controlled-release ... - group of 7 »

JA Hubbell, CP Pathak, AS Sawhney, NP Desai, JL ... - US Patent 6,060,582, 2000 - [Google Patents](#)

... Skarda, V., et al., "Biodegradable **Hydrogel** for Controlled release of Biologically Active ... et al., "Poloxamer 407 as an Intraperitoneal **Barrier** material for the ...

[Cited by 174](#) - [Related Articles](#) - [Web Search](#)

Absorbent articles with absorbent free-flowing particles and methods for producing the same - group of 3 »

WL Hamilton, HA Sorebo, WG Reeves, PA Hansen, EC ... - US Patent 6,562,192, 2003 - [Google Patents](#)

Page 1. United States Patent Hamilton et al. (54) ABSORBENT ARTICLES WITH ABSORBENT FREE-FLOWING PARTICLES AND METHODS FOR PRODUCING THE SAME ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

Photocrosslinked hyaluronic acid hydrogels: Natural, biodegradable tissue engineering scaffolds - group of 6 »

JB Leach, KA Bivens, CW Patrick Jr, CE Schmidt - Biotechnol Bioeng, 2003 - [doi.wiley.com](#)

... 0.2 m Supor Acrodisc PF (pre- filter) **syringe** filter, Pall ... GMHA **Hydrogel**

Characterization ... crosslinking characteristics of the GMHA hydrogels: **swell-** ing ratio ...

[Cited by 27](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Absorbent articles with nits and free-flowing particles - group of 2 »

WL Hamilton, HA Sorebo, WG Reeves, PA Hansen, EC ... - US Patent 6,667,424, 2003 - [Google Patents](#)

... good leakage control is provided by the combined effect of good intake and fluid handling performance of fibrous nits coupled with awicking **barrier** between the ...

[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

Bone growth and adjacent tissue regeneration composition

DW SZYMAJIS - EP Patent 1,464,345, 2004 - [freepatentsonline.com](#)

... claim 7 wherein the thickener is a **hydrogel** or corn ... to manipulate, Guided Tissue Regeneration **barriers** over the ... is injected into the pocket through a **syringe** ...

[Cached](#) - [Web Search](#)

Patterned absorbent article for wound dressing - group of 2 »

SC Stickels, PM Seiler, SE Krampe, SA Burton - US Patent 6,566,575, 2003 - [Google Patents](#)

... and extend through the pores of the barrier film and ... The slightly cross-linked, **hydrogel**-forming polymer gel -ling ... of the hydrophilic gel to **swell** into the ...

[Related Articles](#) - [Web Search](#)

INSULIN DELIVERY SYSTEMS: PRESENT TRENDS AND THE FUTURE DIRECTION - group of 8 »

P Tyagi - Indian Journal of Pharmacology, 2002 - [Medknow](#)

... that pushes the plunger of a **syringe** down to ... insulin was entrapped in amidated pectin **hydrogel** beads and ... of insulin across the highly efficient skin **barrier** 42 ...

[Cited by 2](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Controlled Delivery of Drugs from Alginate Matrix

A Shilpa, SS Agrawal, AR Ray - Journal of Macromolecular Science, Part C: Polymer Reviews, 2003 - Taylor & Francis ... During calcium cross-linking,they do not undergo excessive **swelling** and subsequent shrinking; thus,they can maintain their form in a better manner. ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Implantable prosthetic or tissue expanding device - group of 4 »

JF Zucherman, KY Hsu, S Yerby, RA Smith - US Patent 6,783,546, 2004 - [Google Patents](#)

... Akeratin **hydrogel**-filled implantable prosthetic device. ... In one method, the implant is provided as a kit, with the envelope and keratin **hydrogel** provided. ...

[Related Articles](#) - [Web Search](#)

[Pharmaceutical polymeric controlled drug delivery systems - group of 2 »](#)

M Kumar, N Kumar, AJ Domb, M Arora - *Adv Polym Sci*, 2002 - Springer
... Polymeric Controlled Drug Delivery Systems 57 a steric barrier, which hinders the adsorption of certain plasma proteins onto the surface of such particles. ...
[Cited by 9](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[book Polymers in Medicine: Biomedical and Pharmaceutical Applications](#)

RM Ottenbrite, E Chiellini, MJ Stanaszek - 1992 - books.google.com
... patible hydrogel material for drug delivery from the ... Asimilar immunoisolation or barrier technology can be ... added to the encapsulation syringe (typically 100 ...
[Cited by 2](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

[Crosslinkable polypeptide compositions - group of 2 »](#)

SA Sojomihardjo, NP Desai, PA Sandford, P Soon- ... - US Patent 6,565,842, 2003 - Google Patents
... Park, K. , "Enzyme-Digestible Swelling Hydrogels as Plat -forms for Long-Term ... and Ofner, "Examination of Self-Crosslinked Gelatin as a Hydrogel for Controlled ...
[Related Articles](#) - [Web Search](#)

[Microchip devices for delivery of molecules and methods of fabrication thereof - group of 3 »](#)

AC Richards, JT Santini Jr, MJ Cima, RS Langer - US Patent 6,808,522, 2004 - Google Patents
... release of molecules from a reservoir due to ion exchange, or swelling of a ... rate and/or time, by forming a phase or by providing a diffusional barrier, for example ...
[Related Articles](#) - [Web Search](#)

[Non-or minimally invasive monitoring methods - group of 3 »](#)

SY Kwon, TL Burkoth - US Patent 6,602,678, 2003 - Google Patents
... phosphate salts, hydroxy apatite, porous swellable materials such as ... A needleless syringe device can create diffusion ... Hydrogel systems can be divided into two ...
[Web Search](#)

[BIOLUMINESCENT-BASED GLUCOSE ASSAY FOR A MULTI-ANALYTE BIOSENSOR - group of 3 »](#)

U TELEMEDICINE, G ZONES - *Biology Magazine*, 2003 - liebertonline.com
... retinal imaging (NM.D.SRI) can eliminate some of these barriers by offering ... of a face centered cubic array of ,100 nm polymer spheres embedded in a hydrogel ...
[Web Search](#)

[\[CITATION\] Photopolymerizable biodegradable hydrogels as tissue contacting materials and controlled-release ...](#)

US Patent 5,410,016, 1995

[Web Search](#)

[Investigation of Wetting Behavior of Nonaqueous Ethylcellulose Gel Matrices Using Dynamic Contact ... - group of 5 »](#)

LW Chan, KT Chow, PWS Heng - *Pharmaceutical Research*, 2006 - Springer
... in their function as a moisture-barrier, bioadhesive and ... C for 24 h to ensure complete swelling prior to ... sessile drop was dispensed by a syringe pump through a ...
[Related Articles](#) - [Web Search](#) - [BL Direct](#)

[TISSUE MONITORING SYSTEM FOR INTRAVASCULAR INFUSION](#)

K JERSEY-WILLUHN, M SOLEIMANI - EP Patent 1,467,650, 2004 - freepatentsonline.com
... site or affected body parts for swelling, tenderness, discoloration. ... 324 is coupled to the hydrogel layer 322 for application of the film barrier dressing 300 ...
[Cached](#) - [Web Search](#)

[Gastrointestinal drug delivery system - group of 2 »](#)

EI Lerner, M Flashner, A Penhasi - US Patent 5,840,332, 1998 - Google Patents
Page 1. United States Patent Lerner et al. US005840332A [ii] Patent Number:
[45] Date of Patent: [54] GASTROINTESTINAL DRUG DELIVERY SYSTEM ...
[Cited by 15](#) - [Related Articles](#) - [Web Search](#)

[Formulated nucleic acid compositions and methods of administering the same for gene therapy - group of 6 »](#)

A Rolland, RJ Mumper - US Patent 6,514,947, 2003 - Google Patents
Page 1. United States Patent Rolland et al. (54) FORMULATED NUCLEIC ACID COMPOSITIONS AND METHODS OF ADMINISTERING THE SAME FOR GENE THERAPY ...
[Cited by 5](#) - [Related Articles](#) - [Web Search](#)

barrier and syringe and hydrogel and

[Google Home](#) - [About Google](#) - [About Google Scholar](#)

©2007 Google



barrier and syringe and hydrogel and (swell OR

[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)

Search only in: Chemistry and Materials Science
 Medicine, Pharmacology, and Veterinary Science
 Search in all subject areas.

The "AND" operator is unnecessary -- we include all search terms by default. [\[details\]](#)

[Scholar](#) [All articles](#) [Recent articles](#) Results 101 - 161 of 161 for barrier and syringe and hydrogel and (swell OR swells OR swelling OR swella

[All Results](#)

[Adhesive protein foam for surgical and/or therapeutic uses - group of 3 »](#)

JL Tayot, Y Bayon, P Gravagna, MM Dubois - US Patent 6,730,299, 2004 - Google Patents
... on the photochemical polymerization 45 of **hydrogel** made of ... wounds or as postoperative antiadhesion barriers (EP 747 ... sterilized, for example in a first **syringe** ...

[Related Articles](#) - [Web Search](#)

[R Bawa](#)

[N Peppas](#)

[D Moro](#)

[P Kuzma](#)

[H Quandt](#)

[Transdermal electrotransport delivery device including an antimicrobial compatible reservoir ... - group of 4 »](#)

WA Young, MJN Cormier - US Patent 7,054,682, 2006 - Google Patents
... The skin functions as the primary **barrier** to the transder- 35 mal ... referred to as electroporation, involves the formation of transiently- existing pores in a ...

[Related Articles](#) - [Web Search](#)

[A review of chitin and chitosan applications](#)

M Kumar - *React. Funct. Polym.*, 2000 - [geocities.com](#)
... mal analysis, various titration schemes, acid of chitosan; therefore N-alkyl chitosans **swell** in ... wet spinning process. While **syringe** extrusion ...
[Cited by 119](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Inflatable device and method for reducing fractures in bone and in treating the spine - group of 4 »](#)

S Weikel, DC Paul - US Patent 6,632,235, 2003 - Google Patents
Page 1. United States Patent Weikel et al. (54) INFLATABLE DEVICE AND METHOD FOR REDUCING FRACTURES IN BONE AND IN TREATING THE SPINE ...
[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

[An Overview on the Development of a Bio-Artificial Pancreas as a Treatment of Insulin-Dependent ... - group of 3 »](#)

» Al Silva, AN de Matos, IG Brons, M Mateus - *Medicinal Research Reviews*, 2006 - [doi.wiley.com](#)
... other prototypes of larger pore-sized membrane ... to work as immunoprotective **barriers** in xenotransplantation ... 47 evaluated the AN69 **Hydrogel** biocompatibility by ...
[Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Electrochemical analyte - group of 2 »](#)

J Say, MF Tomasco, A Heller, Y Gal, B Aria, E ... - US Patent 6,134,461, 2000 - Google Patents
Page 1. United States Patent US006134461A [ii] Patent Number: [45] Date of Patent: Say et al. [54] ELECTROCHEMICAL ANALYTE [75] Inventors ...
[Cited by 11](#) - [Related Articles](#) - [Web Search](#)

[A review of chitin and chitosan applications - group of 2 »](#)

MNV Ravi Kumar - *Reactive and Functional Polymers*, 2000 - Elsevier
... greater than those experienced in a **syringe** tip. ... Recently, hydrogels which **swell** and contract in response to ... for the preparation of semi-IPN **hydrogel** based on ...
[Cited by 53](#) - [Related Articles](#) - [Web Search](#)

[Electrochemical Methods for Drug Characterisation and Transdermal Delivery - group of 2 »](#)

CZ Electrophoresis - [diva-portal.org](#)
... The passive delivery of most compounds across the skin is limited due to the **barrier** properties of the outermost layer of the skin called the stratum corneum. ...
[Related Articles](#) - [Web Search](#)

[Preparation of Hydroxypropylcellulose Membranes using Slow Ionotropic Reactions Configured in an ... - group of 3 »](#)

V Pillay, MP Danckwerts, R Bhatt, R Setshedi, R ... - *Journal of Bioactive and Compatible Polymers*, 2005 - [jbc.sagepub.com](#)
... form solid films that act as **barriers** to moisture ... temperature- dependent [8]. In addition, the **hydrogel** films possess ... 2mL/minute using a micro-**syringe** into 1mL ...
[Related Articles](#) - [Web Search](#) - [BL Direct](#)

Medical device with array of electrode-containing reservoirs - group of 2 »

JT Santini Jr, MJ Cima, RS Langer - US Patent 7,070,592, 2006 - Google Patents

... controlling component, such as a polymeric matrix, which affects the release rate and time through degradation, dissolution, **swelling**, or disintegration of the ...

Web Search

Transdermal delivery system for zidovudine: in vitro, ex vivo and in vivo evaluation. - group of 4 »

STK Narishetty, R Panchagnula - Biopharmaceutics & Drug Disposition, 2004 - doi.wiley.com

... selected as the gelling agent as it **swells** easily in ... influence of this adhesive on the skin barrier property was ... into the patch using a disposable **syringe** [15 ...

Cited by 2 - Related Articles - Web Search - BL Direct

GEL COMPOSITIONS

MJ TAYLOR - EP Patent 1,407,267, 2004 - freepatentsonline.com

... or restrain (ie the carrier forms a **barrier** to the ... particle is in effect a discrete **hydrogel** and interstitial ... The cells were filled by **syringe** at the required ...

Cached - Web Search

Microencapsulated pancreatic islet cells - group of 3 »

EC Opara - US Patent 6,783,964, 2004 - Google Patents

Page 1. United States Patent Opara (54) MICROENCAPSULATED PANCREATIC ISLET CELLS (75) Inventor: Emmanuel C. Opara, Durham, NC (US) ...

Related Articles - Web Search

Method of making an intervertebral disc prosthesis - group of 3 »

QB Bao, RG Hudgins, JC Felt, A Arsenyev, HA Yuan - US Patent 7,077,865, 2006 - Google Patents

... Hill West, et al., "Prevention of Postoperative Adhesions in the Rat by In Situ Photopolymerization of Bioresorbable Hydrogel Barriers," Obstet. Gynecol. ...

Related Articles - Web Search

Compositions and dosage forms for gastric delivery of irinotecan and methods of treatment that use ... - group of 3 »

M Flashner-Barak, V Rosenberger, EI Lerner - US Patent 6,881,420, 2005 - Google Patents

... glycoprotein, Secretory Transport, and Other **Barriers** to the ... include dry polymers that **swell** in aqueous ... The preferred **hydrogel** of the gastric retention vehicle ...

Related Articles - Web Search

book] Continuous ethanol production from dilute-acid hydrolyzates: detoxification and fermentation ...

R Purwadi - dspace.hb.se

... in specific surface and size of pore, decrease of ... of cellulose associated with its **swelling**, porosity growth. ... increase of the surface area and size of pores. ...

Related Articles - View as HTML - Web Search

Introduction to Abstracts - group of 3 »

JI JOSEPH, MC TORJMAN - DIABETES TECHNOLOGY & THERAPEUTICS, 1999 - liebertonline.com

... The thickness and **pore** size of this ... goal of his research is to design **hydrogel** carriers containing ... grip and seal, also serving as a **barrier** against infection. ...

Related Articles - Web Search

Electrochemical analyte sensor - group of 4 »

J Say, MF Tomasco, A Heller, Y Gal, B Aria, E ... - US Patent 7,003,340, 2006 - Google Patents

Page 1. United States Patent Say et al. (54) ELECTROCHEMICAL ANALYTE SENSOR

(75) Inventors: James Say, Alameda, CA (US); Michael F ...

Related Articles - Web Search

BIO-SYNTHETIC MATRIX AND USES THEREOF

M GRIFFITH, DJCA CARLSSON, FCA LI - EP Patent 1,530,600, 2005 - freepatentsonline.com

... material which exhibits the ability to **swell** in water ... **HYDROGEL** A cross-linked, terpolymer-collagen **hydrogel** was made ... 100 mg/ml in D-PBS)] by **syringe** mixing at ...

Cached - Web Search

Composite PHB-GGF conduit for long nerve gap repair: A long-term evaluation - group of 4 »

PN Mohanna, G Terenghi, M Wiberg - Scandinavian Journal of Plastic and Reconstructive Surgery ..., 2005 - Taylor & Francis

... A Hamilton **syringe** was used to fill the conduits ... minutes prior to implantation, producing a **hydrogel** that was ... undergone a varying degree of **swelling** with time ...

Cited by 4 - Related Articles - Web Search

COMPOSITIONS COMPRISING AN ANTI-MICROTUBULE AGENT AND A POLYPEPTIDE OR A POLYSACCHARIDE AND THE USE ...

WLCA HUNTER, DMCA GRAVETT, RTCA LIGGINS, PMCA ... - EP Patent 1,387,676, 2004 - freepatentsonline.com

... refer to USP XXII), and an acceptable barrier capacity for ... than one chamber (eg, a dual chamber **syringe**) to allow ... group consisting of a gel, a **hydrogel**, a film ...
[Cached](#) - [Web Search](#)

BONE REPAIR PUTTY COMPRISING POROUS PARTICULATE AND CARRIER GEL

BLUS ATKINSON, TSUS HANKS - EP Patent 1,525,011, 2005 - freepatentsonline.com
... of 7x105-3X106 daltons, to form a **hydrogel** that is ... Optionally, a barrier material may be utilized to retain the ... place using a spatula, placed by **syringe** or even ...
[Cached](#) - [Web Search](#)

Delivery system comprising means for governing fluid into the system and for restricting fluid into ... - group of 3

» JA Magruder, JB Eckenhoff, R Cortese, JC Wright, ... - US Patent 5,630,808, 1997 - Google Patents
... relates to a delivery system comprising (1) housing means, **hydrogel**. These devices operate by imbibing fluid into the (2) a compartment, and (3) exit means. ...
[Cited by 5](#) - [Related Articles](#) - [Web Search](#)

Process for producing an electrochemical biosensor - group of 2

» J Say, MF Tomasco, A Heller, Y Gal, B Aria, E ... - US Patent 6,103,033, 2000 - Google Patents
Page 1. United States Patent US006103033A [ii] Patent Number: [45] Date of Patent:
Say et al. [54] PROCESS FOR PRODUCING AN ELECTROCHEMICAL BIOSENSOR ...
[Cited by 11](#) - [Related Articles](#) - [Web Search](#)

Polymers containing polysaccharides such as alginates or modified alginates - group of 3

» DJ Mooney, KH Bouhadir, WK Wong, JA Rowley - US Patent 6,642,363, 2003 - Google Patents
... for example, from brown sea algae, which forms a stable **hydrogel** in the ... with cells because of their mild gelling conditions, low diffusional **barriers** to cell ...
[Related Articles](#) - [Web Search](#)

Optimisation of treatment by applying programmable rate-controlled drug delivery technology - group of 5

» YW Chien, S Lin - Clin. Pharmacokinet, 2002 - pharmacokinetics.adisonline.com
... The hydration-induced swelling of polymers has been used ... activated, by tissue fluid, to swell and norgestomet ... by diffusion through the gel barrier, while the ...
[Cited by 9](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

RAPIDLY EXPANDING COMPOSITION FOR GASTRIC RETENTION AND CONTROLLED RELEASE OF THERAPEUTIC AGENTS, ...

» M FLESHNER-BARAK, EI LERNER, V ROSENBERGER, M ... - EP Patent 1,305,021, 2003 - freepatentsonline.com
... dopamine, is able to cross the blood-brain barrier. ... In their hydrated condition they swell to an ... Thus the **hydrogel**, superdisintegrant, tannic acid, the active ...
[Cached](#) - [Web Search](#)

Loading of biologically active solutes into polymer gels - group of 2

» EJ Roos, ME Schiller - US Patent 5,840,338, 1998 - Google Patents
... of the solute (eg, drug); and (ii) swelling of a ... moieties reacting to form the **hydrogel** and the ... an expansion or col- place major **barriers** to commercialization ...
[Cited by 13](#) - [Related Articles](#) - [Web Search](#)

book Micro total analysis systems 2004: proceedings of M [My] TAS 2004: 8th International Conference on ...

T Laurell - 2004 - books.google.com
Page 1. I UNIVERTI RSC Micro TotalAnalysis Systems 2004 Proceedings of JTAS 2004 8th International Conference on Miniaturized Systems ...
[Related Articles](#) - [Web Search](#) - [Library Search](#)

Compositions and methods for drug delivery using amphiphile binding molecules - group of 4

» JA Wolff, JE Hagstrom, SD Monahan, V Budker, DB ... - US Patent 6,740,643, 2004 - Google Patents
... injections that use a **syringe** and a ... peptidase-sensitive polypeptides inside phsensitive hydrogel matrix (copolymers ... holes in the endothelial **barrier**) occur in ...
[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

REAGENT AND METHOD FOR PROVIDING COATINGS ON SURFACES

» RA CHAPPA, SM STUCKE, RA AMOS, TP EVERSON, SJ ... - EP Patent 1,465,740, 2004 - freepatentsonline.com
... for treating the surfaces of siloxane-containing **hydrogel** contact lenses ... in order to provide an inert, non-reactive **barrier**. ... was placed in a glass **syringe** (10 ml ...
[Cached](#) - [Web Search](#)

Layer materials treated with surfactant-modified chelating agents - group of 2

» RB Quincy III, GR Woltman, Y Liu, PH Hwang - US Patent 6,509,284, 2003 - Google Patents
... weights may be designed with **pore** structures making them ... for filtration, absorbent and **barrier** applications such ... and other aqueous liquids through the **pores**. ...

Related Articles - Web Search

Intervertebral disc prosthesis - group of 3 »

QB Bao, RG Hudgins, JC Felt, A Arsenyev, HA Yuan - US Patent 7,001,431, 2006 - Google Patents
... Hill West, et al., "Prevention of Postoperative Adhesions in the Rat by In Situ Photopolymerization of Bioresorbable Hydrogel Barriers," Obstet. Gynecol. ...

Related Articles - Web Search

Miniaturized Fluorescence Biosensors For Studying Neuronal Events

TH Nguyen - 2003 - etd-db.unc.edu

... determine the location of probes on macromolecules or the porosity of proteins and ... a biocompatible matrix barrier that is selective to the intracellular analyte ...

Related Articles - View as HTML - Web Search

Transport and Structure in Fuel Cell Proton Exchange Membranes

MA Hickner - 2003 - scholar.lib.vt.edu

... Figure 1-15: Water Swelling of Sulfonated Poly(arylene ether ... Peak in a Water-swollen PVA Hydrogel 70 ... for the Opposing Movement of Species Through a Pore in the ...

View as HTML - Web Search

Polyurethane-containing delivery systems - group of 3 »

JA Magruder, JB Eckenhoff, R Cortese, JC Wright, ... - US Patent 6,180,129, 2001 - Google Patents
... c., ., ., T., ., ., u., ., hydrogel. These devices operate by imbibing fluid into the (2) a compartment, and (3) exit means. ...

Cited by 1 - Related Articles - Web Search

Tissue and Metabolic Engineering of Biohybrid Artificial Organs - group of 3 »

CW Yung - 2005 - drum.umd.edu

... Page 2. novel hydrogel (mTG-Gel), utilizing microbial transglutaminase (mTG) to ... Human IL2 diffusion through the hydrogel into overlaying ...

Related Articles - View as HTML - Web Search

Biodegradable Paclitaxel-loaded Nanoparticles and Stent Coatings as Local Delivery Systems for the ... - group of 2 »

U Westedt - 2004 - archiv.ub.uni-marburg.de

Page 1. Biodegradable Paclitaxel-loaded Nanoparticles and Stent Coatings as Local Delivery Systems for the Prevention of Restenosis Dissertation zur ...

Related Articles - View as HTML - Web Search

Electronic systems and component devices for macroscopic and microscopic molecular biological ... - group of 3 »

CF Edman, E Tu, C Gurtner, L Westin, MJ Heller - US Patent 6,780,584, 2004 - Google Patents

Page 1. United States Patent Edman et al. (54) ELECTRONIC SYSTEMS AND COMPONENT DEVICES FOR MACROSCOPIC AND MICROSCOPIC MOLECULAR ...

Related Articles - Web Search

Biofilms: Survival Mechanisms of Clinically Relevant Microorganisms - group of 7 »

RM Donlan, JW Costerton - Clinical Microbiology Reviews, 2002 - Am Soc Microbiol

... microbial aggregates and floccules and adherent populations within pore spaces of ... substances constituting this matrix present a diffusional barrier for these ...

Cited by 273 - Related Articles - Web Search - BL Direct

Medical devices fabricated from homopolymers and copolymers having recurring carbonate units - group of 7 »

RT Tang, F Mares, WJ Boyle Jr, TH Chiu, KM Patel - US Patent 4,920,203, 1990 - Google Patents

... co P o' y mere where ^ B W^ ck ^TM^ or woven Dacron fibers with open pores in the fabric trimethylene carbonate) or a random copolymer of ...

Cited by 67 - Related Articles - Web Search

ETHER DERIVATIVES USEFUL AS INHIBITORS OF PDE4 ISOZYMES

RJ CHAMBERS, TV MAGEE, A MARFAT - EP Patent 1,373,258, 2004 - freepatentsonline.com

Patent Number: Advanced Search. Site Contents. Search Patents Use our search engine to find what you need. Data and Analytical Services Complete custom solutions ...

Cached - Web Search

Homopolymers and copolymers having recurring carbonate units - group of 2 »

RTH Tang, F Mares, WJ Boyle Jr, TH Chiu, K Patel - US Patent 5,145,945, 1992 - Google Patents

... or woven Dacron fibers with open pores in the ... porosity, whether the fiber is solid or hollow and sur ... diame -ters of the nerve channel, die swell, extrusion rates ...

Cited by 23 - Related Articles - Web Search

[Compositions and methods for drug delivery using pH sensitive molecules - group of 2 »](#)
VS Trubetskoy, JE Hagstrom, VG Budker, JA Wolff, ... - US Patent 6,919,091, 2005 - Google Patents
... intralymphatic injections that use a **syringe** and a ... polypaptides 55 inside pH-sensitive
hydrogel matrix (copolymers ... holes in the endothelial barrier) occur in ...
[Related Articles](#) - [Web Search](#)

[Fundamental phenomenological description and experimental optimization of gel-stabilized ... - group of 4 »](#)
L für Biotechnologie, IW Hartmeier - darwin.bth.rwth-aachen.de
... 62 4.2.6 Explanation of the water drop by alginic acid **hydrogel** formation. 64 ...
immobilization support (ie its **pore size**) appears to be important. ...
[Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Biomaterial for in situ tissue repair - group of 2 »](#)
JC Felt, MA Rydell, RJ Zdrabala, A Arsenyev... - US Patent 6,140,452, 2000 - Google Patents
... conformable, resorbable **hydrogel barrier** for preventing ... Joint repair and replace-
formation of the **hydrogel barrier** in situ by photopolymer- ...
[Cited by 7](#) - [Related Articles](#) - [Web Search](#)

[Medical devices fabricated from copolymers having recurring carbonate units - group of 3 »](#)
RT Tang, F Mares, WJ Boyle Jr, TH Chiu, KM Patel - US Patent 5,486,593, 1996 - Google Patents
... Dacron fibers with 65 open **pores** in the ... such as number or lobes, **porosity**, whether
the ... and outer diameters of the nerve channel, die **swell**, extrusion rates and ...
[Cited by 9](#) - [Related Articles](#) - [Web Search](#)

[Biomaterial system for in situ tissue repair - group of 2 »](#)
JC Felt, MA Rydell, RJ Zdrabala, A Arsenyev... - US Patent 6,306,177, 2001 - Google Patents
... The Hill-West et al. article, in turn, describes the use of a conformable, resorbable
hydrogel barrier for preventing postoperative adhesions in animals. ...
[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

[The Development of a Sustained and Controlled Release Device for Pharmaceutical Proteins based on ... - group of 2 »](#)
S Mohl - 2004 - deposit.ddb.de
... coupling to carriers like vitamin B 12 - , one major technical challenge for the
pharmaceutical scientist still is to overcome the enzymatic **barrier** of the ...
[Web Search](#)

[Compositions and methods for drug delivery using pH sensitive molecules - group of 4 »](#)
SD Monahan, JA Wolff, JE Hagstrom, VG Budker, DB ... - US Patent 6,630,351, 2003 - Google Patents
... injections 30 that use a **syringe** and a needle ... sensitive polypaptides inside pH-sensitive
hydrogel matrix (copolymers ... holes in the endothelial barrier) occur in ...
[Related Articles](#) - [Web Search](#)

[Biomaterial system for in situ tissue repair](#)
EP Patent 1,230,902, 2002 - freepatentsonline.com
... article, in turn, describes the use of a conformable, resorbable **hydrogel**
barrier for preventing postoperative adhesions in animals. ...
[Cached](#) - [Web Search](#)

[Skin grafts and skin substitutes](#)
PL Kelton Jr - Readings Plast Surg, 1999 - www-scf.usc.edu
... bed from further trauma, but also pro- vides an important **barrier** to infection. ... Three
cellular processes may explain this thickening: 1) **swelling** of the nuclei ...
[Cited by 3](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Proceeding of 12 th Interdisciplinary Research Conference on Biomaterials](#)
C Shanghai - rebone.com
Page 1. Proceeding of 12 th Interdisciplinary Research Conference on
Biomaterials (GRIBOI 2002) Shanghai, China March 14-17, 2002 ...
[Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Method of determining an analyte - group of 3 »](#)
DW Schoendorfer - US Patent 5,817,012, 1998 - Google Patents
... This layer serves to protect the filter 16 against physical damage such as abrasion,
and can also serve as a **barrier** for preventing chemical contamination of ...
[Cited by 7](#) - [Related Articles](#) - [Web Search](#)

[4th Annual Meeting of the Spine Society of Europe, September 11-14, 2002, Nantes, France - group of 2 »](#)
FESOF SCOLIOSIS - European Spine Journal, 2002 - Springer
... A **syringe** containing heparin was used to collect 2-3 ml of samples. The

bone marrow samples were placed in culture for 15 days. ...

[Related Articles](#) - [Web Search](#)

Development of Noninvasive Methods for Monitoring Tissue Engineered Constructs using Nuclear ... - group of 4

»
CL Stabler - 2004 - smartech.gatech.edu

Page 1. DEVELOPMENT OF NONINVASIVE METHODS FOR MONITORING TISSUE ENGINEERED CONSTRUCTS USING NUCLEAR MAGNETIC RESONANCE A Dissertation ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#)

MICROPATTERNING AND MICROELECTROCHEMICAL CHARACTERISATION OF BIOLOGICAL RECOGNITION ELEMENTS - group of 3 »

D der Naturwissenschaften, EF Turcu - deposit.ddb.de

... steps involved in the photolithographic processes are: wafer cleaning, **barrier** layer formation, photoresist application, soft baking ...

[Related Articles](#) - [Web Search](#)

Methods and devices for the treatment of ocular conditions - group of 2 »

E deJuan, SE Varner, LR Lawin - 2006 - freepatentsonline.com

... drugs can penetrate this blood ocular **barrier** in relatively ... injection mechanism (for example, a **syringe**) can be ... body can provide a particular **porosity** to the ...

[Cached](#) - [Web Search](#)

COMPOSITIONS AND METHODS OF PACLITAXEL FOR PREVENTING PSORIASIS

WL HUNTER - 2002 - freepatentsonline.com

... are utilizing adhesion prevention **barriers**, a number ... 823; Hoffman et al., "Characterizing **Pore Sizes** and ... Yu and Grainger, "Thermo-sensitive **Swelling** Behavior in ...

[Cached](#) - [Web Search](#)

Compositions and methods for treating surgical adhesions - group of 2 »

WL Hunter - US Patent 6,689,803, 2004 - freepatentsonline.com

... assembly promoting protein (taxol-like protein, TALP), **cell swelling** induced by ... gel, spray, foam, mousse, coating, wrap, paste, **barrier**, implant, microsphere ...

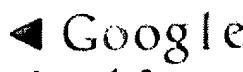
[Related Articles](#) - [Cached](#) - [Web Search](#)

On platelet-rich plasma in reconstructive dental implant surgery. - group of 2 »

A Thor - 2006 - gupea.ub.gu.se

Page 1. On Platelet-Rich Plasma in Reconstructive Dental Implant Surgery by Andreas Thor 1 Departments of Biomaterials and Oral & Maxillofacial Surgery ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#)


Result Page: [Previous](#) [1](#) [2](#)

barrier and syringe and hydrogel and

[Google Home](#) - [About Google](#) - [About Google Scholar](#)

©2007 Google

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operat or	Plura ls	Time Stamp
L17	3	15 and ((radiation irradiat\$3 e\$1beam (electron adj beam) gamma) same cross\$1link\$3)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:10
L16	8	15 and (radiation irradiat\$3 e\$1beam (electron adj beam) gamma)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:09
L15	14	14 and (pore porous)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:09
L14	14	11 and (hydrophilic near3 polymer)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:09

EAST Search History

L13	23	12 and polymer	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:08
L12	27	11 and hydrophilic	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:08
L11	33	10 and (hydrogel hydrophilic water\$1swell\$4)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:08
L10	81	(blood near3 barrier) same syringe	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:07

EAST Search History

L9	6	8 not 3	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:07
L8	6	7 and (cross\$1link\$4 near3 (ultra\$1violet "uv" irradiat\$4 e\$1beam electron\$1beam gamma))	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:05
L7	103	6 and (porous near3 (plug membrane filter))	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:03
L6	1275	(water\$1swell\$4 with (hydrogel (hydrophilic near3 polymer)))	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:02

EAST Search History

L5	76	4 not 3.	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:02
L3	4	((porous with (substrate plug filter)) same (hydrophilic near3 polymer) same (radiat\$4 irradiat\$4)) and (seal\$3 air\$1tight water\$1tight)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 06:00
L4	80	((porous with (substrate plug filter))) and ((hydrophilic near3 polymer) same (radiat\$4 irradiat\$4)) and (seal\$3 air\$1tight water\$1tight)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 05:58
L2	0	(porous with (substrate plug filter)) same (hydrophilic near3 polymer) same (radiat\$4 irradiat\$4) same (seal\$3 air\$1tight water\$1tight)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/19 05:58
L1	1	("4743258").PN.	USPAT	OR	OFF	2007/03/19 05:56
S1	2	("6406671") or ("6551267").PN.	USPAT	OR	OFF	2007/03/19 05:38